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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES:   14 DEC 2007  HIGHEST RN 958257-59-5
DICTIONARY FILE UPDATES:  14 DEC 2007  HIGHEST RN 958257-59-5

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Uploading C:\Program Files\Stnexp\Queries\10540035.str
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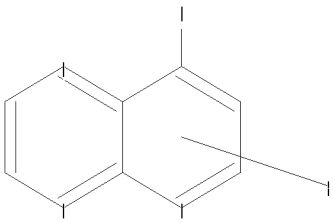

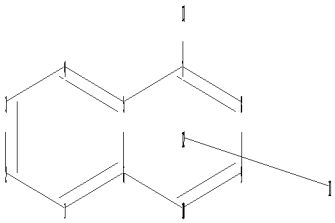

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11
ring nodes :
1 2 3 4 5 6 7 8 9 10
ring/chain nodes :
13
chain bonds :
7-13
ring bonds :
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exact/norm bonds :
7-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:Atom 13:CLASS

L1 STRUCTURE UPLOADED

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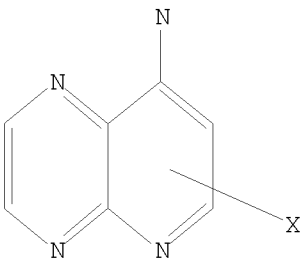

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED      109 ITERATIONS                                 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1554 TO     2806
PROJECTED ANSWERS:               6 TO      266

L2            6 SEA SSS SAM L1

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SEARCH TIME: 00.00.01

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FILE LAST UPDATED: 14 Dec 2007  (20071214/ED)

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=> s l3
L4            8 L3

=> d ibib abs hitstr tot
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L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:873286 CAPLUS
DOCUMENT NUMBER: 147:257795
TITLE: Preparation of tetrahydropyrido[2,3-b]pyrazine and dihydropyrido[2,3-b]pyrazine derivatives as plant fungicides
INVENTOR(S): Crowley, Patrick Jelf; Lamberth, Clemens; Wendeborn, Sebastian; Nebel, Kurt; Mathie, Tanya
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 42pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007088060	A1	20070809	WO 2007-EP876	20070201
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			EP 2006-2304	A 20060203
			EP 2006-3557	A 20060222

OTHER SOURCE(S): MARPAT 147:257795
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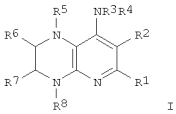
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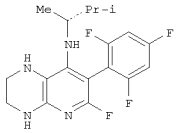
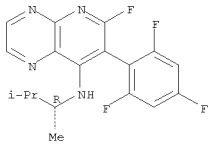

II

AB Title compds. represented by the formula I [wherein R1 = H, alkyl or CN; R2 = (un)substituted (hetero)aryl; R3, R4 = independently H, halo, (cyclo)alkyl, etc.; R5, R8 = independently H, (halo)alkyl, alkylcarbonyl,

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
etc.; R6, R7 = independently H, (halo)alkyl, CN, etc.] were prepd. as plant fungicides. For example, redn. of ((R)-1,2-dimethylpropyl)[6-fluoro-7-(2,4,6-trifluorophenyl)pyrido[2,3-b]pyrazin-8-yl]amine gave II. I were tested for inhibition of fungal infestation, e.g. II showed inhibition against powdery mildew on grape at 200 ppm with at least 80%, while under the same conditions untreated control plants are infected by the phytopathogenic fungi to over 80%.
IT 945683-69-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of tetrahydropyrido[2,3-b]pyrazine and dihydropyrido[2,3-b]pyrazine derivs. as plant fungicides)
RN 945683-69-2 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-[(1R)-1,2-dimethylpropyl]-6-fluoro-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1354846 CAPLUS
DOCUMENT NUMBER: 144:88319
TITLE: Preparation of pyrido[2,3-b]pyrazine derivatives for combating phytopathogenic fungi
INVENTOR(S): Crowley, Patrick Jelf; Mueller, Urs; Dobler, Markus; Williams, John
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123733	A1	20051229	WO 2005-EP6706	20050621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1758901	A1	20070307	EP 2005-753594	20050621
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			GB 2004-13953	A 20040622
			WO 2005-EP6706	W 20050621

OTHER SOURCE(S): CASREACT 144:88319; MARPAT 144:88319
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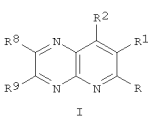
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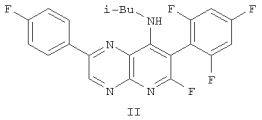
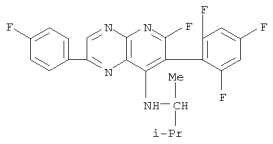
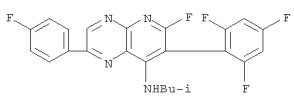

II

AB Title compds. represented by the formula I [wherein R = H, halo, (halo)alkyl, etc.; R1 = (hetero)aryl, arylalkyl, heteroarylthio, etc.; R2 = halo or (un)substituted amino; R8, R9 = H, halo, alkoxy, (cyclo)alkyl, etc.; or R8R9 = (un)saturated (hetero)cyclyl] were prepared as phytopathogenic

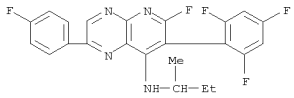
L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
fungicides. For example, II was provided in a multi-step synthesis starting from Me 3-amino-6-bromopyrazine-2-carboxylate. II showed fungicidal activity with 60% control of Pyricularia oryzae. Thus, I and their plant fungicidal comps. are useful for controlling phytopathogenic fungi.
IT 872088-73-8P, (1,2-Dimethylpropyl)[6-fluoro-2-(4-fluorophenyl)-7-(2,4,6-trifluorophenyl)pyrido[2,3-b]pyrazin-8-yl]amine
872088-82-9P 872088-84-1P 872088-85-2P
872088-86-3P 872088-87-4P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating phytopathogenic fungi)
RN 872088-73-8 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-(1,2-dimethylpropyl)-6-fluoro-2-(4-fluorophenyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 872088-82-9 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-2-(4-fluorophenyl)-N-(2-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

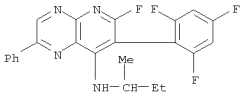


RN 872088-84-1 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-2-(4-fluorophenyl)-N-(1-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

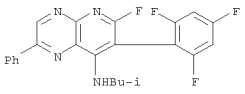


L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

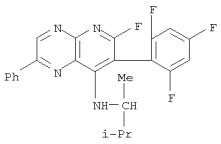
RN 872088-85-2 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-(1-methylpropyl)-2-phenyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 872088-86-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-(2-methylpropyl)-2-phenyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 872088-87-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-(1,2-dimethylpropyl)-6-fluoro-2-phenyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1354789 CAPLUS
DOCUMENT NUMBER: 144:88318
TITLE: Preparation of pyrido[2,3-b]pyrazine-8-amine derivatives as phytopathogenic fungicides
INVENTOR(S): Crowley, Patrick Jelf; Mueller, Urs; Dobler, Markus; Williams, John
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123698	A1	20051229	WO 2005-EP6687	20050621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1771423	A1	20070411	EP 2005-753230	20050621
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				

PRIORITY APPLN. INFO.: GB 2004-13955 A 20040622
WO 2005-EP6687 W 20050621

OTHER SOURCE(S): CASREACT 144:88318; MARPAT 144:88318
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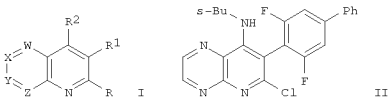


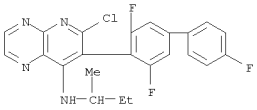
AB Title compds. represented by the formula I [wherein W, X, Y, Z = N or CR8;

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

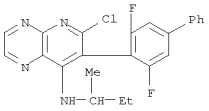
R = H, halo, (halo)alkyl, etc.; R1 = (hetero)aryl, arylalkyl, heteroarylthio, etc.; R2 = halo or (un)substituted amino; R8 = H, halo, alkyl(thio)] were prepd. as phytopathogenic fungicides. For example, II was provided in a multi-step synthesis starting from 2,6-difluoro-4-bromobenzyl alc. II showed fungicidal activity with 60% control of Pyricularia oryzae and Septoria tritici. Thus, I and their plant fungicidal compns. are useful for controlling phytopathogenic fungi.

IT 872089-11-7P, sec-Butyl[6-chloro-7-[4-(4-fluorophenyl)-2,6-difluorophenyl]pyrido[2,3-b]pyrazin-8-yl]amine 872089-18-4P, sec-Butyl[6-chloro-7-(4-phenyl-2,6-difluorophenyl)pyrido[2,3-b]pyrazin-8-yl]amine 872089-19-5P, sec-Butyl[6-chloro-7-[4-[(4-methylphenyl)ethynyl]-2,6-difluorophenyl]pyrido[2,3-b]pyrazin-8-yl]amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)

RN 872089-11-7 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-(1-methylpropyl)-7-(3,4',5-trifluoro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

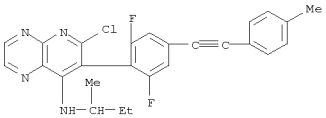


RN 872089-18-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(3,5-difluoro[1,1'-biphenyl]-4-yl)-N-(1-methylpropyl)- (CA INDEX NAME)



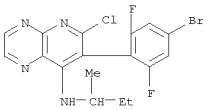
RN 872089-19-5 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-[2,6-difluoro-4-[(4-methylphenyl)ethynyl]phenyl]-N-(1-methylpropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 872089-17-3P, [7-(4-Bromo-2,6-difluorophenyl)-6-chloropyrido[2,3-b]pyrazin-8-yl]-sec-butylamine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)

RN 872089-17-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(4-bromo-2,6-difluorophenyl)-6-chloro-N-(1-methylpropyl)- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

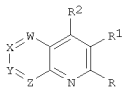
FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:546507 CAPLUS
DOCUMENT NUMBER: 141:89117
TITLE: A preparation of pyridodiazine derivatives, useful as plant fungicides
INVENTOR(S): Crowley, Patrick Jelf; Dobler, Markus; Mueller, Urs; Williams, John
PATENT ASSIGNEE(S): Syngenta Limited, UK; Syngenta Participations A.-G.
SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056825	A1	20040708	WO 2003-GB5250	20031203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2509451	A1	20040708	CA 2003-2509451	20031203
AU 2003288410	A1	20040714	AU 2003-288410	20031203
EP 1575948	A1	20050921	EP 2003-780329	20031203
EP 1575948	B1	20070214		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017678	A	20051129	BR 2003-17678	20031203
CN 1732168	A	20060208	CN 2003-80107398	20031203
JP 2006516129	T	20060622	JP 2004-561603	20031203
AT 353897	T	20070315	AT 2003-780329	20031203
ES 2282702	T3	20071016	ES 2003-3780329	20031203
ZA 2005004296	A	20060222	ZA 2005-4296	20050526
MX 2005PA06648	A	20050816	MX 2005-PA6648	20050617
IN 2005CN01351	A	20070622	IN 2005-CN1351	20050621
US 2006205717	A1	20060914	US 2005-540035	20050622

PRIORITY APPLN. INFO.: GB 2002-30020 A 20021223
WO 2003-GB5250 W 20031203

OTHER SOURCE(S): MARPAT 141:89117
GI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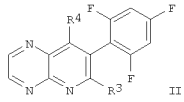
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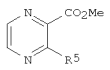
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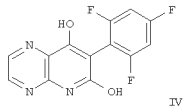
IV

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The invention relates to a preparation of pyridodiazine derivs. of formula I
[wherein: W and X, W and Z, X and Y or Y and Z are N and the other two are
CH, C-halo, or C-alkyl, etc.; R and R2 are independently H, halo, alkyl, alkoxy, or alkylthio, etc.; R1 is halo, (cyclo)alkyl, alk(en/yn)yl, or (hetero)aryl, etc.], useful as plant fungicides. For instance, pyridopyrazine derivs. II (R3 = Cl; R4 = i-PrNH; > 60% control of disease,
phytophthora infestans) and II (R3 = i-PrNH, R4 = Cl) was prepared via amidation of 2,4,6-trifluorophenylacetyl chloride by aminopyrazine derivative
III (R5 = NH2), intramol. heterocyclization of the obtained acetylaminopyrazine derivative III [R5 = 2,4,6-trifluoro-C6H4CH2C(O)NH], chlorination of the obtained dihydroxypyridopyrazine derivative IV, and subsequent amination of 6,8-dichloropyridopyrazine derivative by i-PrNH2.

IT 716324-82-2P 716324-87-7P 716325-06-3P
716325-07-4P 716325-09-6P 716325-11-0P
716325-12-1P 716325-13-2P 716325-14-3P
716325-15-4P 716325-16-5P 716325-17-6P
716325-18-7P 716325-19-8P 716325-20-1P
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716325-57-4P 716325-58-5P 716325-59-6P
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716325-69-8P 716325-70-1P 716325-71-2P
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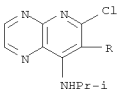
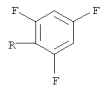
716325-78-9P 716325-79-0P 716325-80-3P
716325-81-4P 716325-84-7P 716325-85-8P

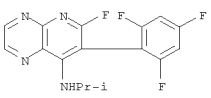
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
716325-86-9P 716325-87-0P 716326-04-4P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fungicidal pyridodiazine derivs. from diazines)

RN 716324-82-2 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-(1-methylethyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



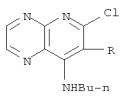


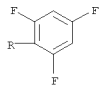
RN 716324-87-7 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-(1-methylethyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



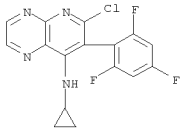
RN 716325-06-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-butyl-6-chloro-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

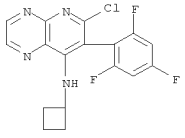




RN 716325-07-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-cyclopropyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

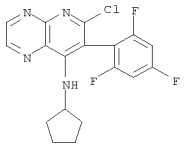


RN 716325-09-6 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-cyclobutyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

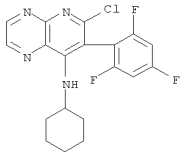


RN 716325-11-0 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-cyclopentyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

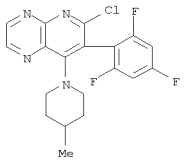
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-12-1 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-cyclohexyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

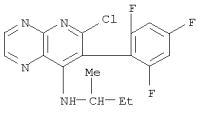


RN 716325-13-2 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-8-(4-methyl-1-piperidinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

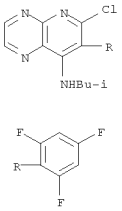


RN 716325-14-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-(1-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

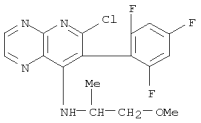
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-15-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-(2-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

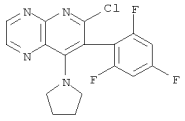


RN 716325-16-5 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-(2-methoxy-1-methylethyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

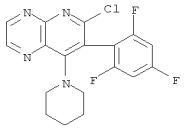


RN 716325-17-6 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-8-(1-pyrrolidinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

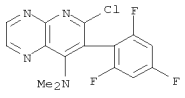
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



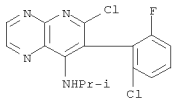
RN 716325-18-7 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-8-(1-piperidinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 716325-19-8 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N,N-dimethyl-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

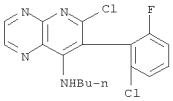


RN 716325-20-1 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-(1-methylethyl)- (CA INDEX NAME)

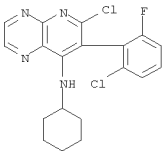


RN 716325-22-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-butyl-6-chloro-7-(2-chloro-6-fluorophenyl)- (CA INDEX NAME)

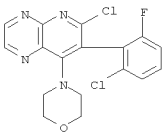
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-23-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-cyclohexyl- (CA INDEX NAME)

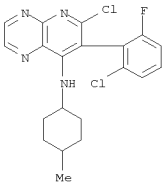


RN 716325-24-5 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-7-(2-chloro-6-fluorophenyl)-8-(4-morpholinyl)- (CA INDEX NAME)

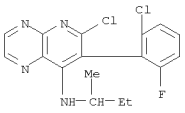


RN 716325-25-6 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-(4-methylcyclohexyl)- (CA INDEX NAME)

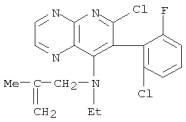
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-26-7 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-(1-methylpropyl)- (CA INDEX NAME)

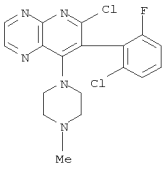


RN 716325-27-8 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-ethyl-N-(2-methyl-2-propenyl)- (9CI) (CA INDEX NAME)

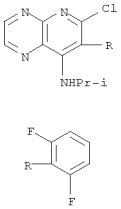


RN 716325-28-9 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-chloro-6-fluorophenyl)-N-(2-methoxy-1-methylethyl)- (CA INDEX NAME)

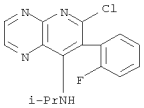
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-54-1 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2,6-difluorophenyl)-N-(1-methylethyl)- (CA INDEX NAME)

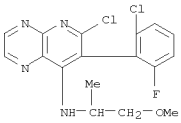


RN 716325-56-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-fluorophenyl)-N-(1-methylethyl)- (CA INDEX NAME)

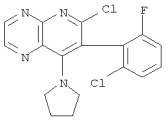


RN 716325-57-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2-fluorophenyl)-N-(1-methylpropyl)- (CA INDEX NAME)

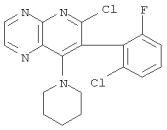
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-29-0 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-7-(2-chloro-6-fluorophenyl)-8-(1-pyrrolidinyl)- (CA INDEX NAME)

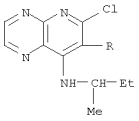


RN 716325-30-3 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-7-(2-chloro-6-fluorophenyl)-8-(1-piperidinyl)- (CA INDEX NAME)

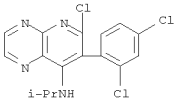


RN 716325-31-4 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-7-(2-chloro-6-fluorophenyl)-8-(4-methyl-1-piperazinyl)- (CA INDEX NAME)

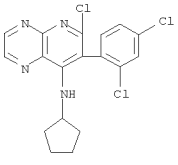
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-58-5 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-7-(2,4-dichlorophenyl)-N-(1-methylethyl)- (CA INDEX NAME)

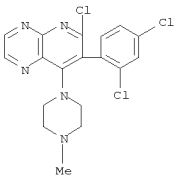


RN 716325-59-6 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-chloro-N-cyclopentyl-7-(2,4-dichlorophenyl)- (CA INDEX NAME)

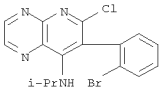


RN 716325-60-9 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-7-(2,4-dichlorophenyl)-8-(4-methyl-1-piperazinyl)- (CA INDEX NAME)

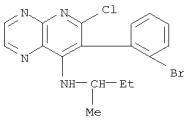
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-64-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-bromophenyl)-6-chloro-N-(1-methylethyl)- (CA INDEX NAME)

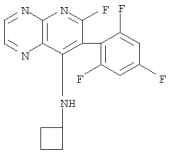


RN 716325-66-5 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-bromophenyl)-6-chloro-N-(1-methylpropyl)- (CA INDEX NAME)

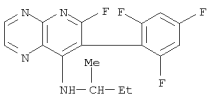


RN 716325-69-8 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-(1,1-dimethylethyl)-6-fluoro-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

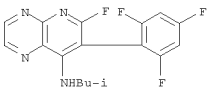
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



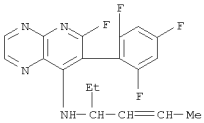
RN 716325-73-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-(1-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 716325-74-5 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-(2-methylpropyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

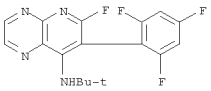


RN 716325-75-6 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-(1-ethyl-2-butenyl)-6-fluoro-7-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



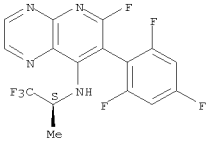
RN 716325-76-7 CAPLUS

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

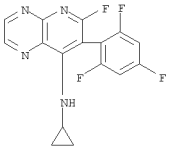


RN 716325-70-1 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 6-fluoro-N-[(1S)-2,2,2-trifluoro-1-methylethyl]-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

Absolute stereochemistry.

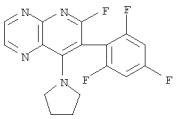


RN 716325-71-2 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-cyclopropyl-6-fluoro-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

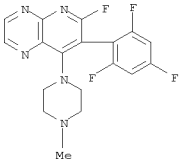


RN 716325-72-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, N-cyclobutyl-6-fluoro-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)

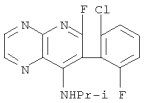
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Pyrido[2,3-b]pyrazine, 6-fluoro-8-(1-pyrrolidinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



RN 716325-77-8 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-fluoro-8-(4-methyl-1-piperazinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



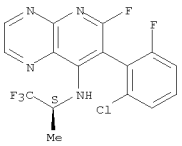
RN 716325-78-9 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-chloro-6-fluorophenyl)-6-fluoro-N-(1-methylethyl)- (CA INDEX NAME)



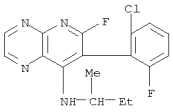
RN 716325-79-0 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-chloro-6-fluorophenyl)-6-fluoro-N-[(1S)-2,2,2-trifluoro-1-methylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

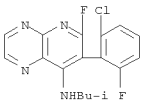
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 716325-80-3 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-chloro-6-fluorophenyl)-6-fluoro-N-(1-methylpropyl)- (CA INDEX NAME)



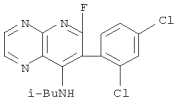
RN 716325-81-4 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2-chloro-6-fluorophenyl)-6-fluoro-N-(2-methylpropyl)- (CA INDEX NAME)



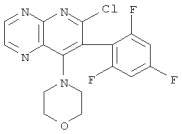
RN 716325-84-7 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2,4-dichlorophenyl)-6-fluoro-N-[(1S)-2,2,2-trifluoro-1-methylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

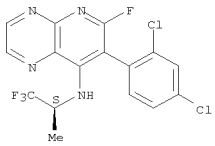


RN 716326-04-4 CAPLUS
CN Pyrido[2,3-b]pyrazine, 6-chloro-8-(4-morpholinyl)-7-(2,4,6-trifluorophenyl)- (CA INDEX NAME)



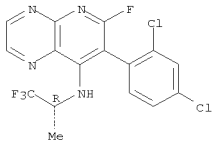
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

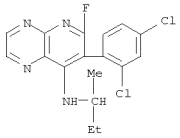


RN 716325-85-8 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2,4-dichlorophenyl)-6-fluoro-N-[(1R)-2,2,2-trifluoro-1-methylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 716325-86-9 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2,4-dichlorophenyl)-6-fluoro-N-(1-methylpropyl)- (CA INDEX NAME)



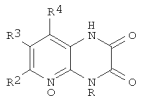
RN 716325-87-0 CAPLUS
CN Pyrido[2,3-b]pyrazin-8-amine, 7-(2,4-dichlorophenyl)-6-fluoro-N-(2-methylpropyl)- (CA INDEX NAME)

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:308346 CAPLUS
DOCUMENT NUMBER: 126:330626
TITLE: Preparation of 8-aza-, 6-aza- and 6,8-diaza-1,4-dihydroquinoxaline-2,3-diones as antagonists for the glycine/NMDA receptor
INVENTOR(S): Cai, Sui X.; Keana, John F. W.; Weber, Eckard
PATENT ASSIGNEE(S): Oregon Health Sciences University, USA; University of California; ACEA Pharmaceuticals, Inc.
SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 289,366, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5620978	A	19970415	US 1995-368163	19950103
CA 2180122	A1	19950713	CA 1995-2180122	19950103
IL 112235	A	20000629	IL 1995-112235	19950103
US 5863916	A	19990126	US 1997-795387	19970204
JP 2005247864	A	20050915	JP 2005-121174	20050419
PRIORITY APPLN. INFO.:			US 1994-176278	B2 19940103
			US 1994-289366	B2 19940811
			JP 1995-518626	A3 19950103
			US 1995-368163	A3 19950103

OTHER SOURCE(S): CASREACT 126:330626; MARPAT 126:330626
GI

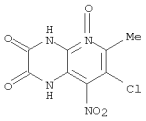


I

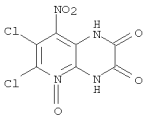
AB Title compds. I [R = H, OH, NH2, CH2CONHR1, NHCONHR1, NHCOCH2R1, COCH2R1, (un)esterified carboxyalkyl; R1 = aryl; R2, R3 = H, NO2, NH2, halo, haloalkyl, CN, alkyl, cycloalkyl, alkenyl, alkynyl, N3, acylamino, alkylsulfonyl, (un)substituted aryl, heteroaryl, alkoxy, trialkylsilyl-substituted alkoxy, (un)substituted aryloxy, heteroaryloxy, heterocyclic, heterocyclyloxy, aralkoxy, haloalkoxy; R4 = H, F] were prepared These compds. have high binding to the glycine site of the NMDA receptor and are useful in treating or preventing neuronal loss associated with stroke, ischemia, CNS trauma or hypoglycemia. Thus, 2-amino-5-chloropyridine was nitrated, reduced to the diamine, cyclized with oxalic acid, and oxidized to give I [R, R2, R4 = H, R3 = Cl, II].

II

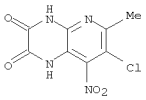
L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
had a ki of 600 nM for glycine/NMDA receptor binding and an anticonvulsant
ED50 of 1-1.5 mg/kg in mice.
IT 168123-92-0P 189504-12-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of azaquinoxalinediones as NMDA receptor antagonists)
RN 168123-92-0 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-chloro-1,4-dihydro-6-methyl-8-nitro-, 5-oxide (CA INDEX NAME)



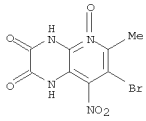
RN 189504-12-9 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 6,7-dichloro-1,4-dihydro-8-nitro-, 5-oxide (CA INDEX NAME)



IT 168123-93-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of azaquinoxalinediones as NMDA receptor antagonists)
RN 168123-93-1 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-chloro-1,4-dihydro-6-methyl-8-nitro- (CA INDEX NAME)



L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 168123-99-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of azaquinoxalinediones as NMDA receptor antagonists)
RN 168123-99-7 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-bromo-1,4-dihydro-6-methyl-8-nitro-, 5-oxide (CA INDEX NAME)

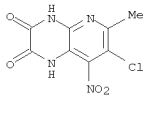


L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:813072 CAPLUS
DOCUMENT NUMBER: 123:218436
TITLE: 8-Aza, 6-aza and 6,8-diaza-1,4-dihydroquinoxaline-2,3-diones and the use thereof as antagonists for the glycine/NMDA receptor
INVENTOR(S): Cai, Sui Xiong; Weber, Eckard; Keana, John F. W.
PATENT ASSIGNEE(S): Acea Pharmaceuticals, Inc., USA; Regents of the University of California; Oregon State Board of Higher Education
SOURCE: PCT Int. Appl., 167 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

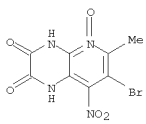
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9518616	A2	19950713	WO 1995-US214	19950103
WO 9518616	A3	19951221		
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2180122	A1	19950713	CA 1995-2180122	19950103
AU 9515993	A	19950801	AU 1995-15993	19950103
EP 743855	A1	19961127	EP 1995-907997	19950103
R: DE, FR, GB				
JP 09510695	T	19971028	JP 1995-518626	19950103
IL 112235	A	20000629	IL 1995-112235	19950103
JP 2005247864	A	20050915	JP 2005-121174	20050419
PRIORITY APPLN. INFO.:			US 1994-176278 A	19940103
			US 1994-289366 A	19940811
			JP 1995-518626 A3	19950103
			WO 1995-US214 W	19950103

AB Methods of treating or preventing neuronal loss associated with stroke, ischemia, CNS trauma, hypoglycemia and surgery, as well as treating neurodegenerative diseases including Alzheimer's disease, amyotrophic lateral sclerosis, Huntington's disease, and Down's syndrome, treating or preventing the adverse consequences of the hyperactivity of the excitatory amino acids, as well as treating anxiety, chronic pain, convulsions, inducing anesthesia, and treating or preventing opiate tolerance are disclosed by administering a substituted or unsubstituted (di)aza-1,4-dihydroquinoxaline-2,3-dione and their pharmaceutically acceptable salts thereof, which have high binding to the glycine receptor.
6-Chloro-8-(N-oxy)aza-1,4-dihydroquinoxaline-2,3-dione was prepared and its neuroprotective effect was evaluated in a rat model of permanent focal cerebral ischemia.

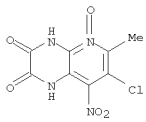
L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 168123-93-1P 168123-99-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(neuroprotectant effects of (di)azadihydroquinoxalinediones as NMDA antagonists)
RN 168123-93-1 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-chloro-1,4-dihydro-6-methyl-8-nitro- (CA INDEX NAME)



RN 168123-99-7 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-bromo-1,4-dihydro-6-methyl-8-nitro-, 5-oxide (CA INDEX NAME)



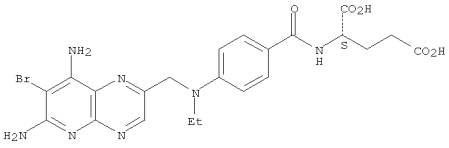
IT 168123-92-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(neuroprotectant effects of (di)azadihydroquinoxalinediones as NMDA antagonists)
RN 168123-92-0 CAPLUS
CN Pyrido[2,3-b]pyrazine-2,3-dione, 7-chloro-1,4-dihydro-6-methyl-8-nitro-, 5-oxide (CA INDEX NAME)



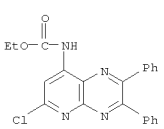
L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:432654 CAPLUS
DOCUMENT NUMBER: 91:32654
ORIGINAL REFERENCE NO.: 91:5213a,5216a
TITLE: Analogs of methotrexate
AUTHOR(S): Montgomery, John A.; Piper, James R.; Elliott, Robert D.; Temple, Carroll, Jr.; Roberts, Eugene C.; Shealy, Y. F.
CORPORATE SOURCE: Kettering-Meyer Lab., Southern Res. Inst., Birmingham, AL, 35205, USA
SOURCE: Journal of Medicinal Chemistry (1979), 22(7), 862-8
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Analogs of methotrexate (I) prepared by alkylation of the side-chain precursors with 6-(bromomethyl)-2,4-pteridinediamine [59368-16-0] and saponification of the intermediate esters were evaluated for activity against L1210 leukemia in mice, KB cell culture cytotoxicity, and inhibition of dihydrofolate reductase [9002-03-3]. The compds. closely related structurally to I were highly inhibitory of the enzyme and showed the same activity in the 2 tests as I. Substitution of an aliphatic group of the same length (in the extended or staggered conformation) resulted in loss of activity. Structure-activity relations are discussed.
IT 70539-55-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitumor activity of)
RN 70539-55-8 CAPLUS
CN L-Glutamic acid, N-[4-[[(6,8-diamino-7-bromopyrido[2,3-b]pyrazin-2-yl)methyl]ethylamino]benzoyl]- (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:121488 CAPLUS
DOCUMENT NUMBER: 72:121488
ORIGINAL REFERENCE NO.: 72:21851a,21854a
TITLE: Synthesis of potential antimalarial agents. IV. Preparation of 8-amino-3-(p-chlorophenyl)-6-[[4-(diethylamino)-1-methylbutyl]amino]pyrido[2,3-b]pyrazine
AUTHOR(S): Temple, Carroll, Jr.; Elliot, Robert D.; Rose, Jerry D.; Montgomery, John A.
CORPORATE SOURCE: Kettering-Meyer Lab., Southern Res. Inst., Birmingham, AL, USA
SOURCE: Journal of Heterocyclic Chemistry (1970), 7(2), 451-4
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Chlorodehy-droxylation of citrazinic acid with POCl3 in the presence of 2,5-lutidine gave 2,6-dichloroisonicotinic acid, which was aminated by treatment with NH3 to give 2-amino-6-chloroisonicotinic acid (I). I was converted into its Et ester, which on hydrazinolysis with N2H4 gave 2-amino-6-chloroisonicotinic acid hydrazide (II). Nitrosation of II with isoamyl nitrite followed by in situ rearrangement of the resulting acid azide gave Et 2-amino-6-chloro-4-pyridinecarbamate-HCl, which on nitration gave Et 2-amino-6-chloro-3-nitro-4-pyridinecarbamate (III). The reaction of III with 2-amino-5-diethylaminopentane gave Et 2-amino-6-[[4-(diethylamino)-1-methylbutyl]amino]-3-nitro-4-pyridine carbamate-HCl, which on reduction over Raney Ni and condensation of the resulting 2,3-diamino-4-pyridinecarbamate with p-chlorophenylglyoxal gave Et 3-(p-chlorophenyl)-6-[[4-(diethylamino)-1-methylbutyl]-amino]pyrido[2,3-b]pyrazine-8-carbamate-2HCl (IV). The urethane group of IV was cleaved with KOH in EtOH to give title compound, a potential antimalarial agent.
IT 29331-18-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 29331-18-8 CAPLUS
CN Pyrido[3,4-b]pyrazine-8-carbamic acid, 6-chloro-2,3-diphenyl-, ethyl ester (8CI) (CA INDEX NAME)



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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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